

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

SPECIFICATION AND CONSTRUCTION PLANS FOR:

BR. 1-714 ON CHAPMAN RD. OVER I-95

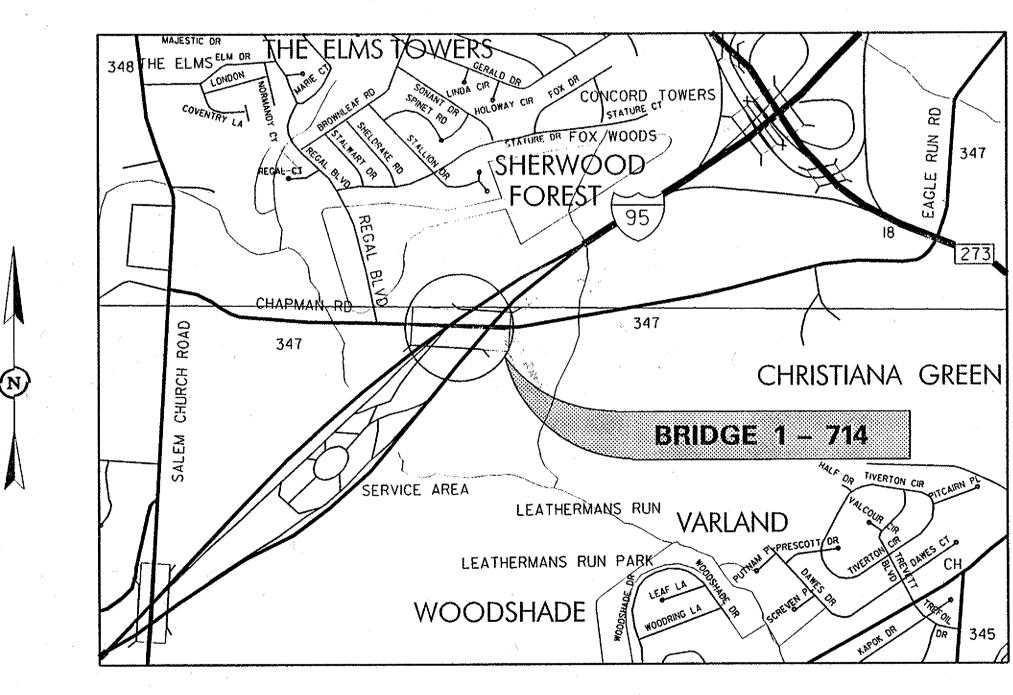
CONTRACT NUMBER 94-074-07

FEDERAL AID PROJECT NUMBER BRN-N347(1)

ROADWAY LENGTH STRUCTURE LENGTH

350.0 **FEET** = .066 **MILES** 588.5 **FEET** = ... | MILES

938.5 **FEET** = . 177 **MILES** TOTAL LENGTH



LOCATION MAP

	CONTRACT	COUNTY	M.R. NO.	F.H.W.A. REG. NO.	FEDERAL AID PROJECT NUMBER	NO.
	94-074-07	NEW CASTLE	714	3	BRN-N347(1)	1
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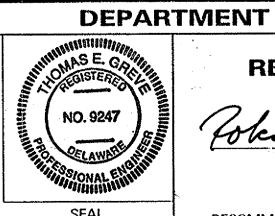
INDEX	OF SHEETS				
SHEET NO	TABLE OF CONTENTS				
1	TITLE SHEET				
2	QUANTITY SUMMARY, GENERAL AND PROJECT NOTES				
3	PLAN, PROFILE AND SECTION (EXISTING)				
4	PLAN, PROFILE AND SECTION (PROPOSED)				
5	SIDEWALK MODIFICATION DETAILS				
6	GUARDRAIL TO BARRIER CONNECTION				
7-8	BCT DETAILS				
9	SIGNING AND STRIPING				
10	DETOUR PLAN				
11-13	STANDARD SHEETS (G-2-9, G-4-7, AND G-5)				
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DEPARTI	MENT	OF	TRANSPORTATION
FEDERAL	HIGH	WAY	ADMINISTRATION

DIVISION ADMINISTRATOR

RECOMMENDED

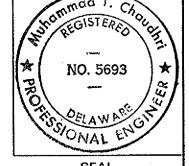


RECOMMENDED



RECOMMENDED ROAD DESIGN ENGINEER

RECOMMENDED



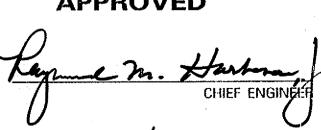
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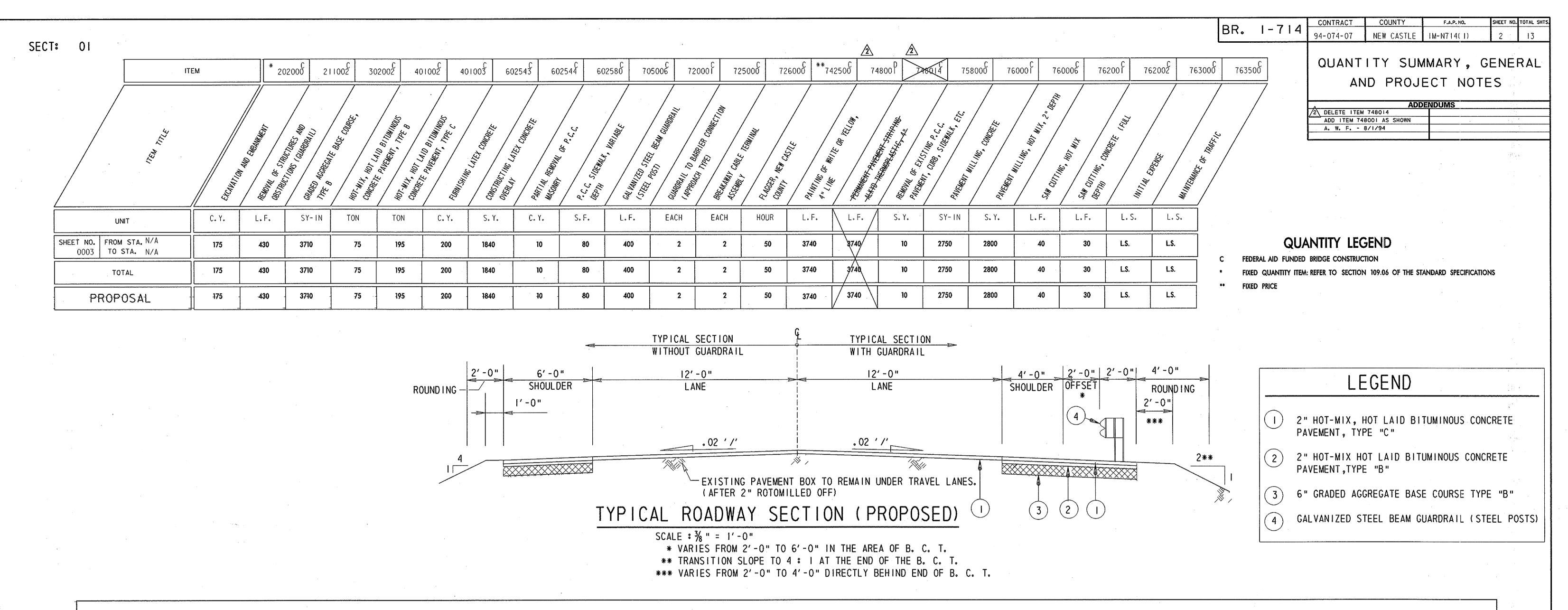
MILEPOST

APPROVED

TRANSPORTATION







GENERAL NOTES

THIS CONTRACT IS TO BE BUILT UNDER THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 1985, THE SUPPLEMENTAL SPECIFICATIONS THERETO, THE GENERAL AND PROJECT NOTES, THESE PLANS AND AS AMENDED BY THE SPECIAL PROVISIONS.

MAINTENANCE OF TRAFFIC - ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL INSURE THE LEAST PRACTICABLE OBSTRUCTION TO TRAFFIC CONSISTENT WITH SAFETY AND SHALL COMPLY WITH THE DEPARTMENT MANUAL ENTITLED "TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND EMERGENCY OPERATION DATED MARCH I, 1993 (OR MOST CURRENT AT THE TIME OF ADVERTISEMENT) HEREINAFTER THIS MANUAL SHALL BE REFERRED TO AS THE TRAFFIC CONTROL MANUAL.

BEFORE EXCAVATION IS STARTED IN AREAS OF UNDERGROUND UTILITIES, THE CONTRACTOR SALL GIVE NOTIFICATION BY TELEPHONE BY CALLING "MISS UTILITY" AT 1-800-282-8555. ALL UTILITIES PLOTTED ON PLAN SHEETS ARE FROM THE BEST AVAILABLE INFORMATION. ANY CONFLICTS OF THESE UTILITIES WITH PROPOSED CONSTRUCTION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED.

PROJECT NOTES

LOCATION

REHABILITATION OF BRIDGE # 1-714 ON CHAPMAN ROAD OVER 1-95, WEST OF CHRISTIANA, DELAWARE

PORTLAND CEMENT CONCRETE

STRUCTURAL ELEMENTS OF PORTLAND CEMENT CONCRETE SHALL BE AS NOTED:

(F'C = 28 DAY COMPRESSIVE STRENGTH)

CLASS B - BRIDGE SIDEWALKS (F'C = 4500 P.S.I.)
LATEX CONCRETE DECK SLAB (F'C = 5000 P.S.I.)

MIX REQUIREMENTS SHALL CONFORM TO SECTION 812 OF THE SPECIFICATIONS.
ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4 " UNLESS OTHERWISE NOTED.

KEYED CONSTRUCTION JOINTS SHALL BE 2" X 4" OR AS NOTED. ALL EXPOSED CONSTRUCTION JOINT EDGES SHALL HAVE A ¾ " V-NOTCH.

ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATION OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE TOPSOILED, SEEDED AND MULCHED. PAYMENT SHALL BE INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL REMOVE THE EXISTING GUARDRAIL TO THE LIMITS SHOWN ON THE PLANS. PAYMENT UNDER ITEM 211002 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS (GUARDRAIL).

EXISTING DRAIN PIPES ON WEST APPROACH WITHIN THE PROJECT LIMITS SHALL BE CLEANED AND FLUSHED. PAYMENT INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.

PROJECT NOTES (cont.)

DURING THE DURATION OF THE FULL ROADWAY CLOSURE, (7 CALENDER DAYS) THE CONTRACTOR SHALL PLACE PORTABLE CONCRETE SAFETY BARRIER ACROSS THE ROADWAY AT BOTH ENDS OF THE JOB. THE BARRIER SHALL BE OBTAINED FROM THE BEAR YARD. PAYMENT FOR THE PICKUP, DELIVERY, SETTING, REMOVAL, RETURN TO BEAR YARD, AND ALL OTHER INCIDENTAL REQUIRED SHALL BE PAID UNDER ITEM 763500 - MAINTENANCE OF TRAFFIC.

ALL THE CONSTRUCTION WILL BE ACCOMPLISHED WITHIN THE EXISTING RIGHT OF WAY.

THE DEPARTMENT WILL SET-UP THE SIGNED DETOUR ROUTE.

THE DEPARTMENT SHALL TAKE ELEVATIONS AT 10' INTERVALS OF THE EXISTING DECK AND APPROACH ROADWAY PRIOR TO ANY MILLING OPERATIONS. THIS INFORMATION SHALL BE USED TO ESTABLISH A NEW SMOOTH PROFILE WHICH CLOSELY RESEMBLES THE EXISTING PROFILE AND CROSS SLOPE.

AFTER MILLING OF THE CONCRETE DECK, THE DECK SHALL BE CHECKED FOR UNSOUND CONCRETE AS DETERMINED BY THE ENGINEER. ALL UNSOUND CONCRETE SHALL BE REMOVED. PAYMENT UNDER ITEM 602580 - PARTIAL REMOVAL OF P.C.C. MASONRY. ADDITIONAL CONCRETE TO REPAIR DETERIORATED AREAS SHALL BE PAID UNDER ITEM 602543 - FURNISHING LATEX CONCRETE.

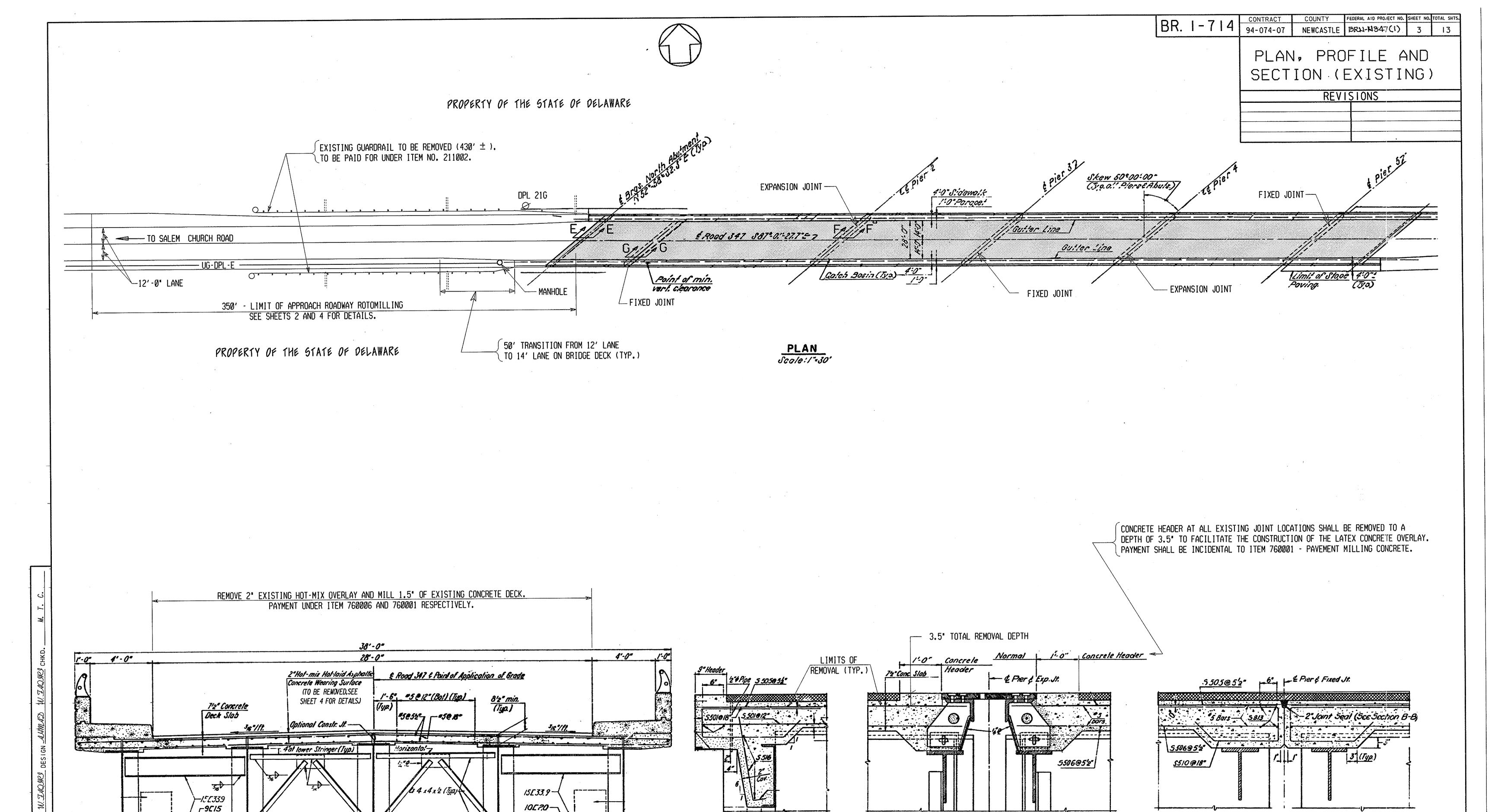
ANY HOT-MIX PATCHING REQUIRED, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETED AS DIRECTED AND TO THE SATISFACTION OF THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 401003 - HOT-MIX, TYPE C.

IF THE CONTRACTOR ELECTS TO WORK AT NIGHT, HE/SHE IS RESPONSIBLE FOR ALL THE NECESSARY LIGHTING. PAYMENT SHALL BE INCIDENTAL TO ITEM 602544 - CONSTRUCTING LATEX CONCRETE OVERLAY.

Almad W. Jagir CHKD.

M.J.W. Cocicu

JNE 16, 1994



SECTION E-E

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SECTION G-G

Scale: | ** | '-0"

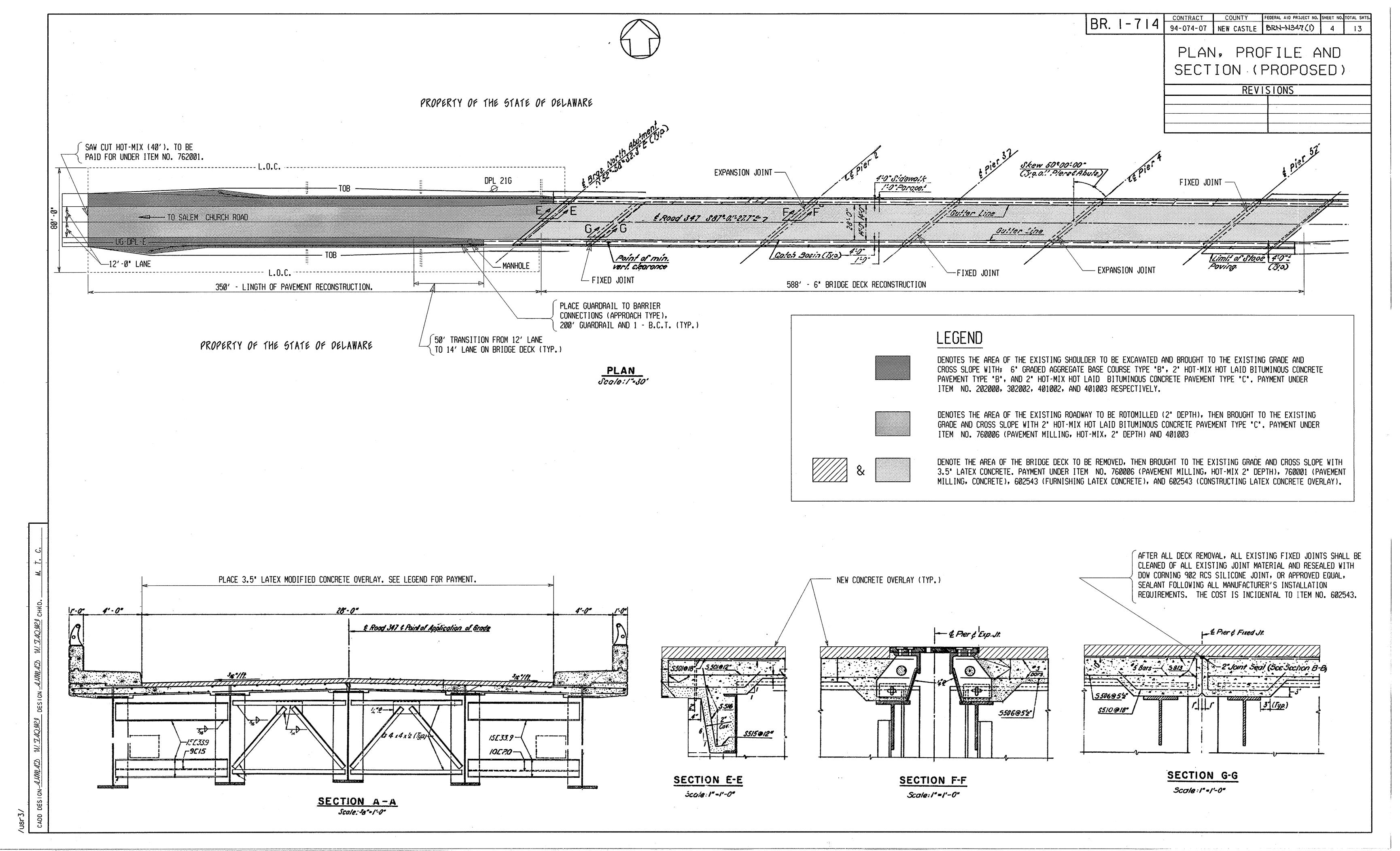
SECTION F-F

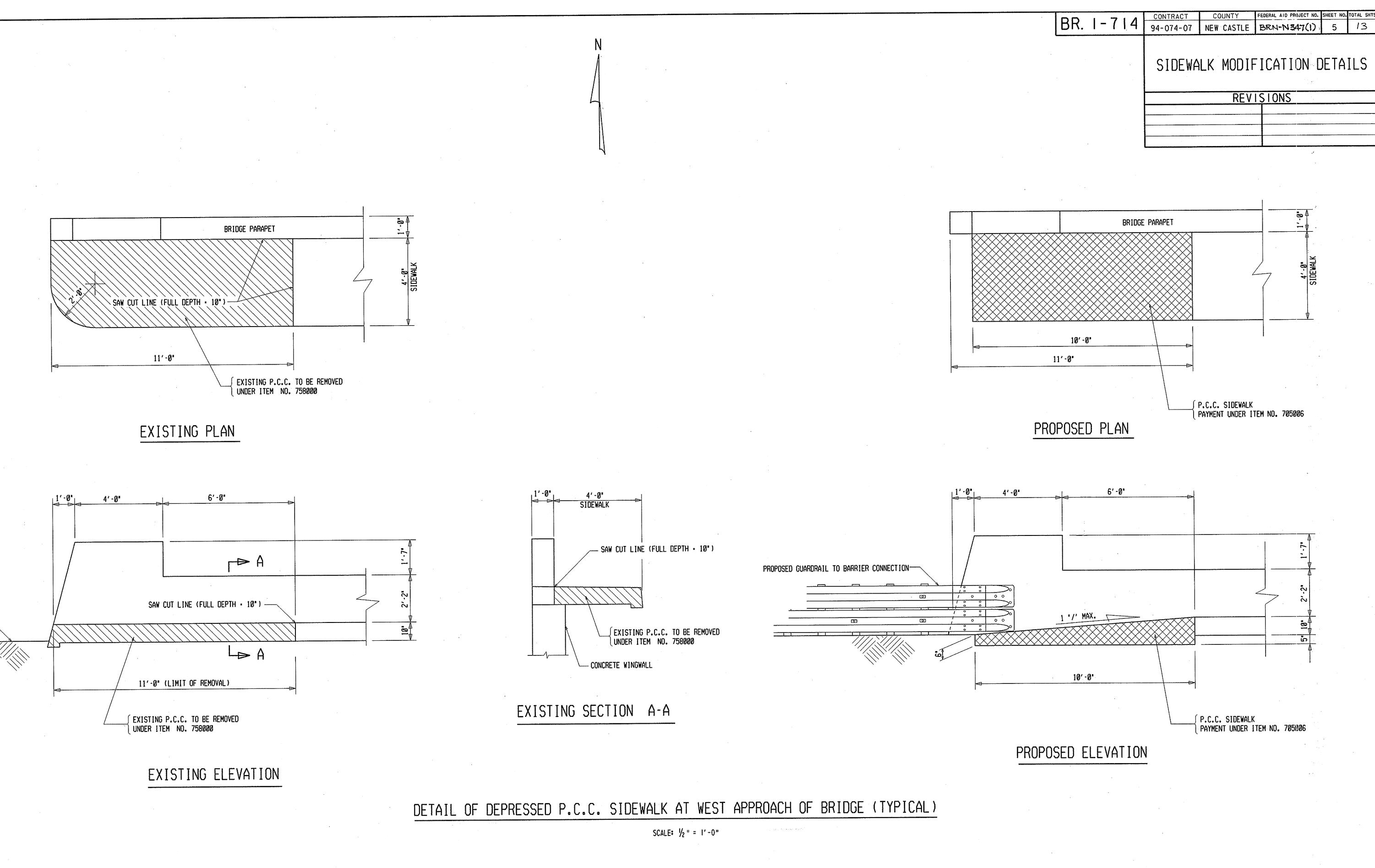
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SECTION A-A

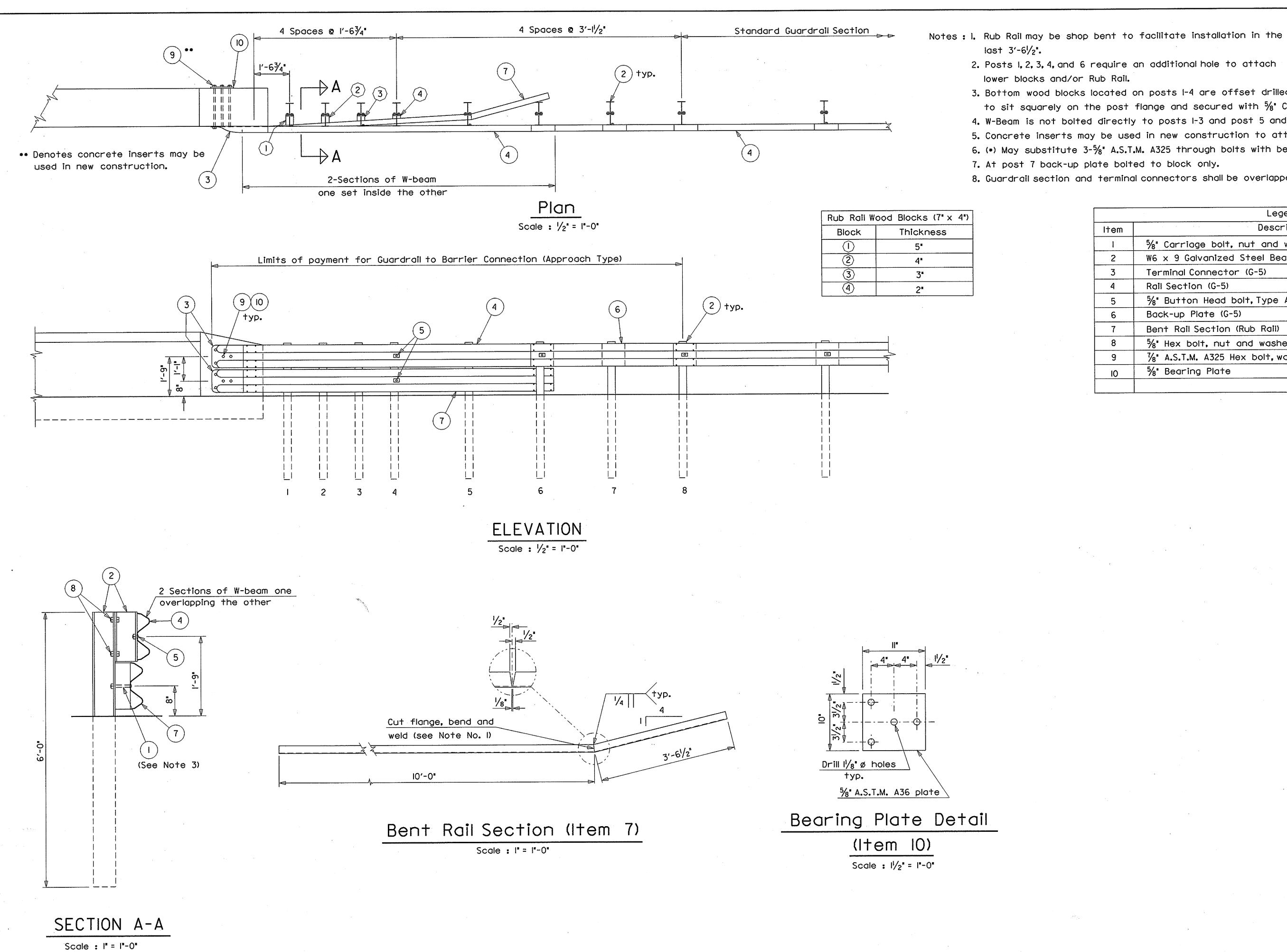
Scale: 58" - 1'-0"





NOTE: 1.) NORTHWEST CORNER SHOWN, SOUTHWEST CORNER SAME BUT OPPOSITE HAND.
2.) EXCAVATION FOR THE PLACEMENT OF THE NEW P.C.C. SIDEWALK SHALL BE PAID UNDER ITEM NO. 202000.

GRAVEL SHOULDER —



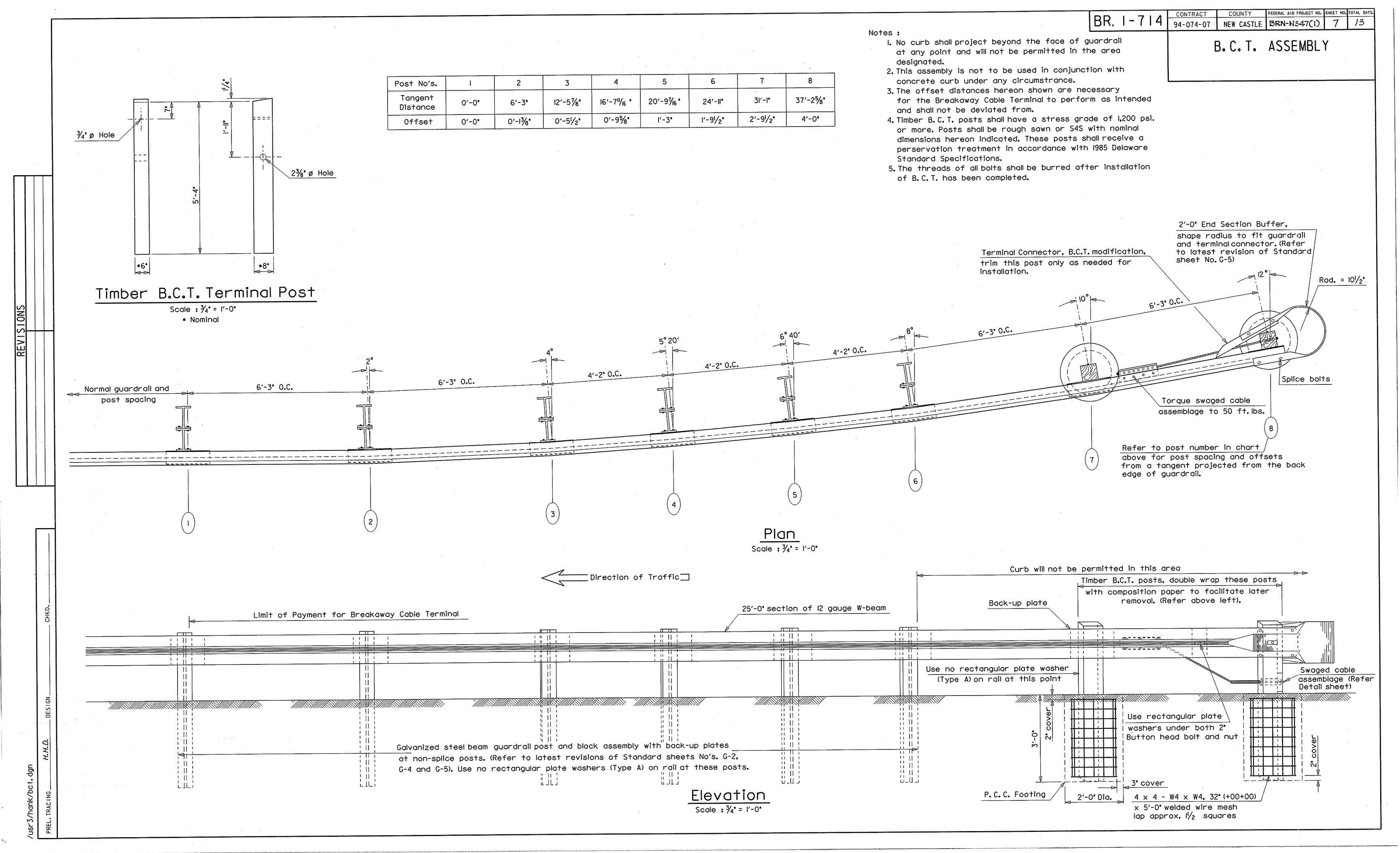
94-074-07 NEW CASTLE BRN-N347(1) 6 13

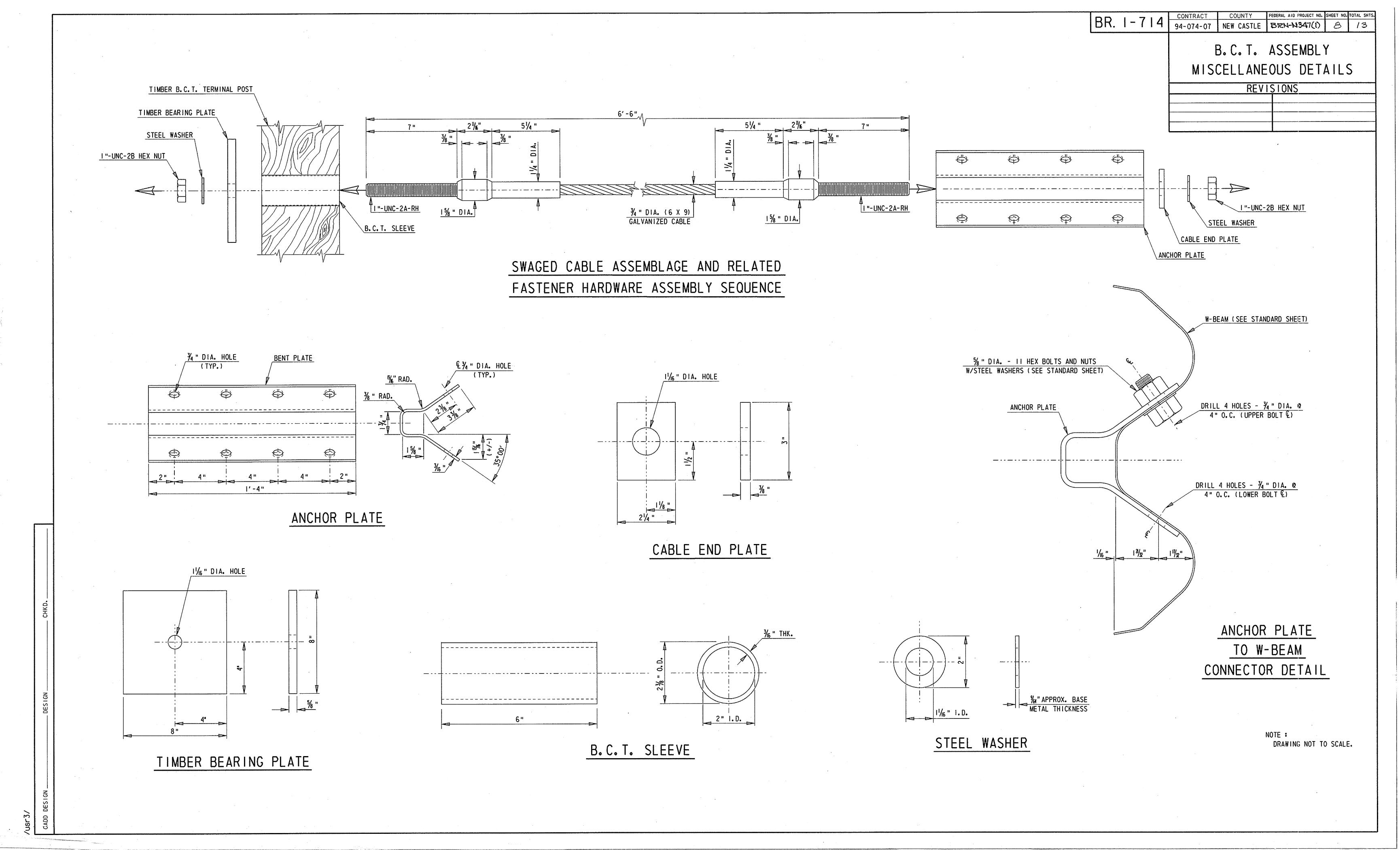
Guardrail to Barrier Connection (App. Type)

3. Bottom wood blocks located on posts 1-4 are offset drilled to sit squarely on the post flange and secured with $\frac{5}{8}$ " Carriage bolts.

- 4. W-Beam is not bolted directly to posts 1-3 and post 5 and 7; bolt block directly to post.
- 5. Concrete inserts may be used in new construction to attach Terminal Connector to parapet.
- 6. (*) May substitute $3-\frac{5}{8}$ " A.S.T.M. A325 through bolts with bearing plate.
- 7. At post 7 back-up plate bolted to block only.
- 8. Guardrail section and terminal connectors shall be overlapped in the direction of travel.

	Legend
ltem	Description
1	5/8" Carriage bolt, nut and washer
2	W6 x 9 Galvanized Steel Beam Guardrail Post and Block (G-4-7)
3	Terminal Connector (G-5)
4	Rail Section (G-5)
5	5/8" Button Head bolt, Type A washer and Recess nut (G-4-7)
6	Back-up Plate (G-5)
7	Bent Rail Section (Rub Rail)
8	$\frac{5}{8}$ " Hex bolt, nut and washer (G-4-7)
9	$\frac{7}{8}$ " A.S.T.M. A325 Hex bolt, washer and nut (G-7-1)
10	⅓" Bearing Plate





3,740 L.F. PERMANENT PAVEMENT
STRIPING, ACKYD THERMOPLASTIC, 4", [748014]

SIGNING AND STRIPING PLAN

REVISIONS

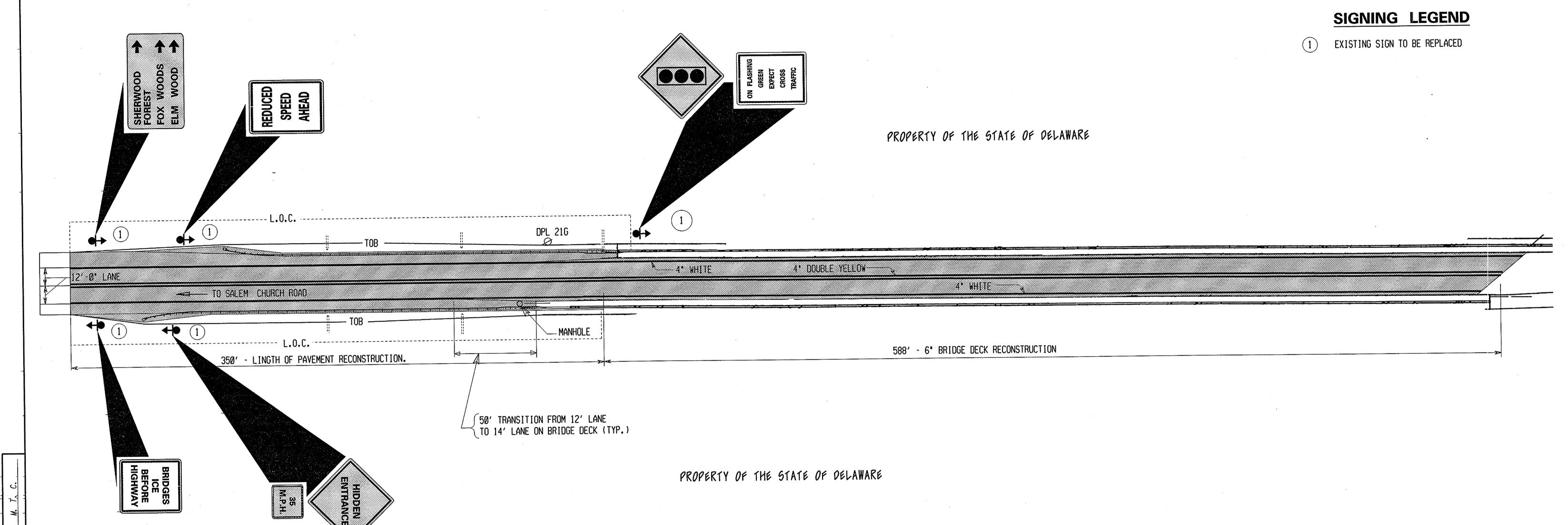
NEWCASTLE

BR. 1-714 CONTRACT 94-074-07

AS SHOWN.

A. W. F. - 8/1/94

3,740 L.F. PAINTING OF WHITE OR YELLOW, 4", [748001]



PLAN
Scale:/=30'

D W. LAUNG DESIGN LYMPAD W. LAUNG CHKD.

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